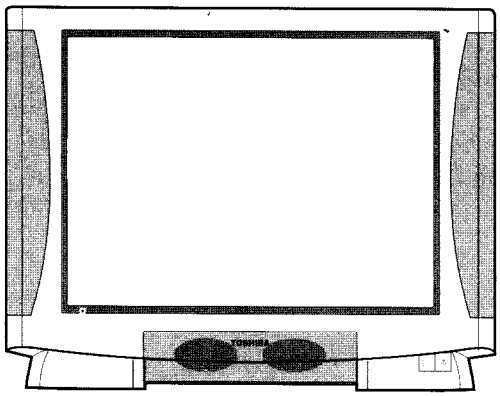
TOSHIBA



Nicam Stereo Colour Television

with fastext

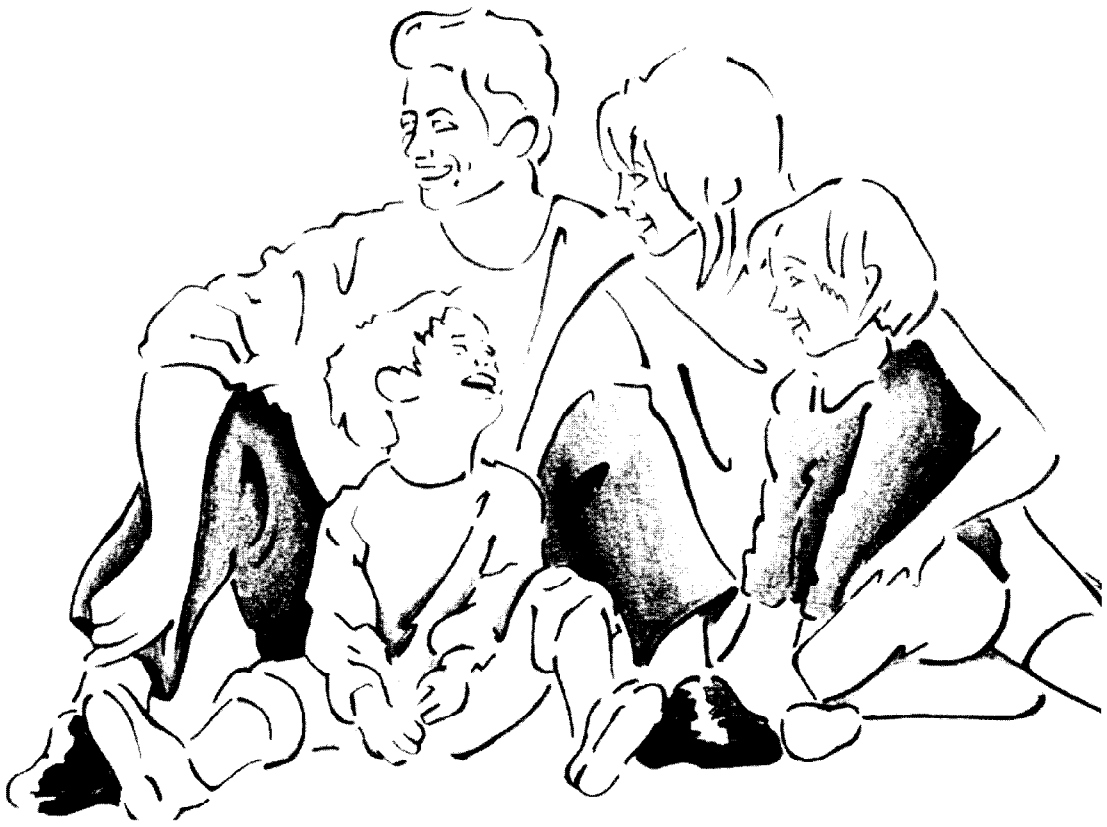
and

* DOLBY SURROUND

PRO • LOGIC

2987DB
3387DB

OWNER'S MANUAL



Introduction

This Manual has been designed to be easy to use, but if you need advice in using your Toshiba Television, we have provided a Customer Helpline for you.

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Installation:

Positioning your TV – Locate the television where direct sunlight does not impair the picture, soft and indirect lighting is recommended for comfortable viewing.

Avoid locations which are excessively warm, moist or humid to prevent damage to the cabinet and components. Leave at least 10 cm clearance around the top, back and sides of the television to allow adequate ventilation and sound response.

If using a video recorder mounted in a cabinet below your TV, it is recommended that it is placed on the lowest shelf of the cabinet for optimum performance.

Mains Connection – This equipment will operate on any supply between 220 and 240v AC 50Hz. Never connect to a DC supply or any other power source.

Mains Plug – DO NOT cut off the fused mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance.
The fuse fitted in this plug is 5A. and is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be re-fitted.

IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN

Installation

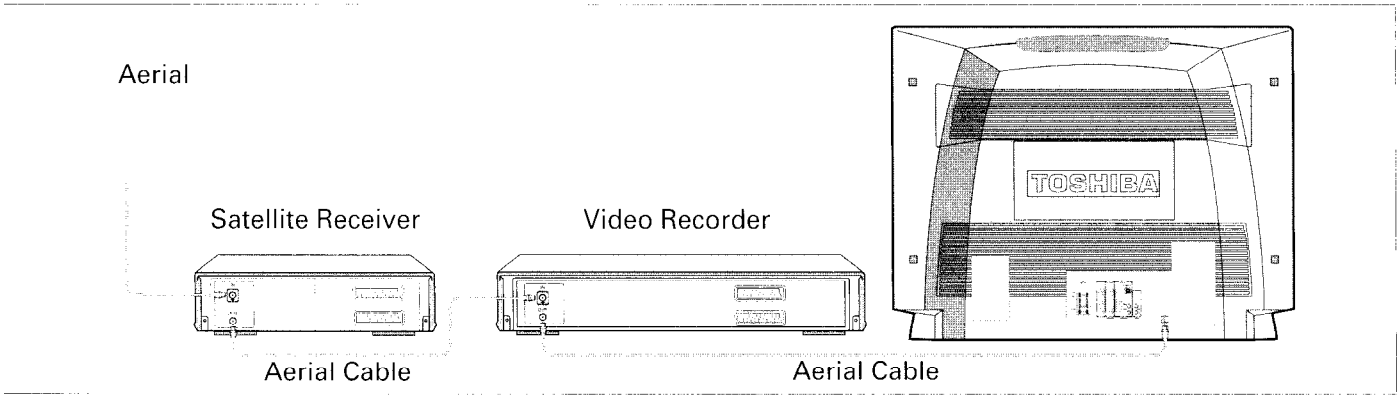
Optimum reception of colour and text requires a good signal and will generally mean that a loft or outdoor aerial must be used. The exact type and siting will depend upon your particular area and your local Toshiba dealer will be best to advise.

Connecting your TV:

The following simple steps will enable you to automatically tune your TV and store BBC1 on position 1, BBC2 on position 2, ITV on position 3, Channel 4 on position 4, Channel 5 on position 5 and satellite programs on position 6.

Connect the aerial plug to the socket on the rear of the television. If you use a satellite receiver and/or a video recorder it is essential that the aerial cable is connected through the satellite receiver and/or through the video recorder to the television. **Note:** The satellite receiver must be switched on and tuned to Sky News and the video recorder plugged in and set to standby. This will enable your television to identify and allocate the necessary programme positions.

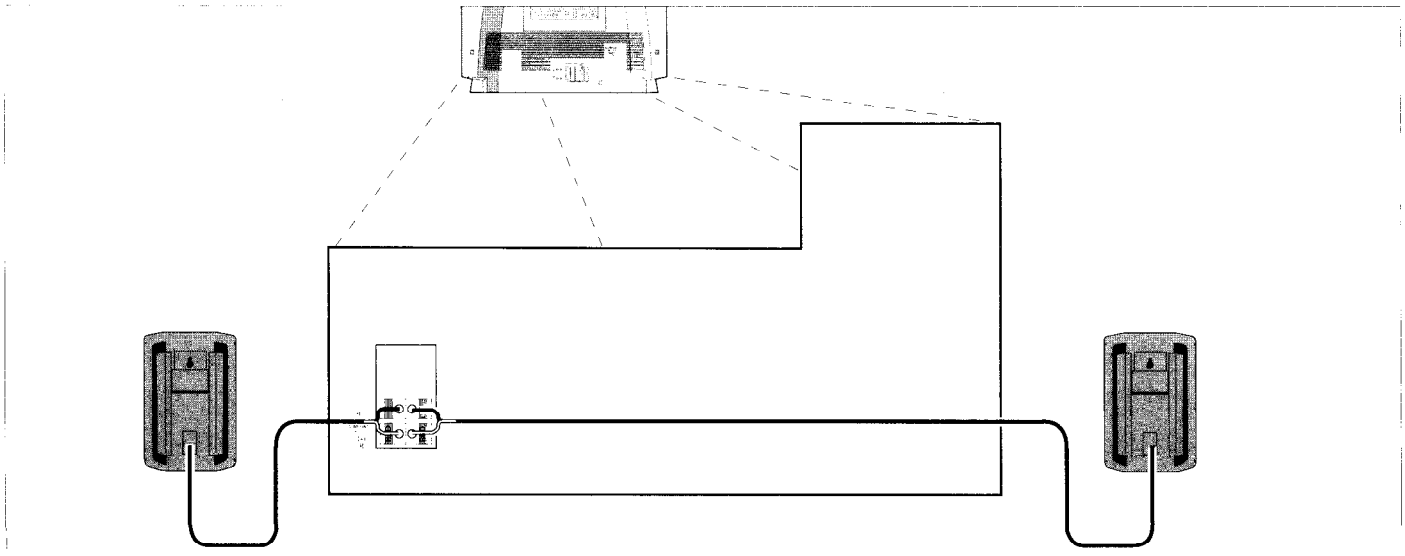
DO NOT CONNECT SCART LEADS UNTIL THE TELEVISION IS FULLY TUNED.



In order to enjoy the sensations of Surround Sound TV it is necessary to connect the 2 surround speakers. These speakers and cables are included with the TV and should be sited in line with the normal viewing position. It is essential that the TV is switched off before you connect any external speakers. Failure to do so may damage your speakers and your TV.

To connect the Surround Speakers simply press the connector and insert the cable. Always make sure that the lead with the stripe (or raised edge) is connected to the RED terminal and the other (smooth) lead is connected to the BLACK terminal.

Always make sure that there are no 'short circuits' on the speaker connections.



Your remote control

The illustration below is intended to give an overall outline of the remote control. Individual buttons are described in the text.

Operation and batteries:

This button has no function on this model

F button for use with the buttons having pale blue symbols/wording, the teletext colour buttons and for increasing the speed of user adjustments. Also for On/Standby for a **TOSHIBA** DVD

Number Buttons

1 or 2 Digit Channel Selection Page 13

Picture size Page 21

On-screen Menus Pages 6

Surround Sound Pages 16-20

Stereo/bilingual reception Page 15

These buttons will operate your **TOSHIBA** VIDEO and DVD. **For the DVD you must press the F button at the same time...**

to switch ON/OFF, press

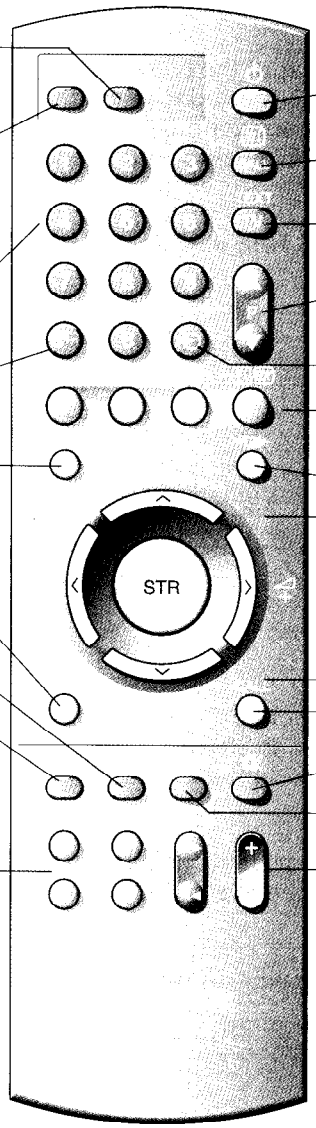
to STOP, press

to PLAY, press

to PAUSE, press

to FAST FORWARD/ SKIP, press

to REWIND/SKIP, press



Standby Page 13

To bring up on-screen information and for the Teletext initial/index function Page 25

To display text services Pages 24-25

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To select external sources Page 12

Teletext control buttons Page 24-25

Selectable picture presets Page 14

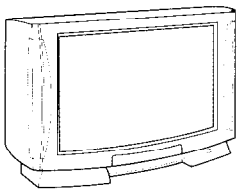
Menu selection/confirmation buttons – the arrows to move the cursor on the screen up, down, left or right and **STR** to confirm your selection.

CALL – To exit Menus Page 5

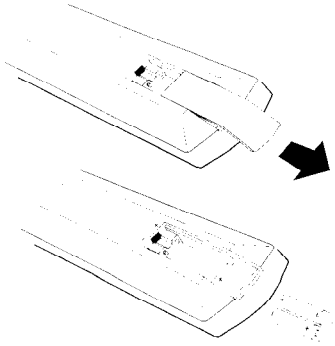
To mute the sound Page 13

Super Woofer Page 21

To alter the volume Page 13



The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the TV.



Carefully slide the back cover downwards to reveal the battery compartment and make sure you insert the batteries the right way round.

All Toshiba batteries are Cadmium and Mercury free. Suitable battery types for this remote are R03 or AAA.

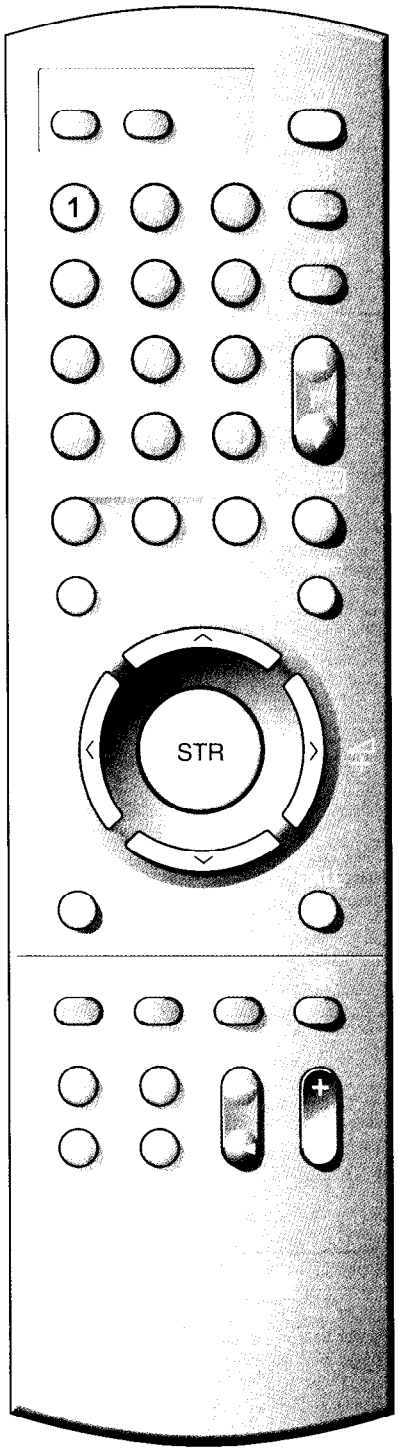
Do not throw your old batteries into a fire, dispose of them in a designated disposal area. Do not combine a used, old battery with a new one or mix battery types.

How it works

This Owner's Manual is divided into:
INFORMATION AND GUIDANCE ON THE LEFT | INSTRUCTIONS ON THE RIGHT

Selecting and adjusting Menu functions using the remote control:

The buttons you will need for each section are highlighted in white (see below).



Your new Toshiba TV has a menu system to help you select the various functions. Press the **MENU** button on the remote control unit to access the **Main menu**.

Menu displays will remain on screen for approximately 15 seconds.

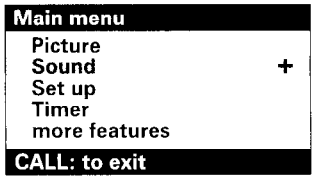
If a display disappears, simply press the **MENU** button to bring back the **Main menu**.

To cancel any display press the **CALL** button.

Highlighting a feature, enables you to ***adjust/alter*** it.
To ***highlight*** a feature press the ^ button to ***move*** the bar up, or the v button to ***move*** the bar down.
To ***select/adjust*** a feature press either the + (or –) button.

Selecting and adjusting Menu functions

1 Press the **MENU** button to access the **Main menu**.



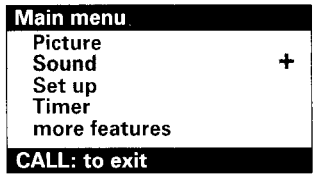
2 Use the adjacent ^ (or v) button to ***move*** the highlight bar up (or down) the menu.

3 Use the adjacent + (or –) button to ***select*** or ***adjust*** the settings.

For example: To ***select*** **Balance** in the Sound menu.

---

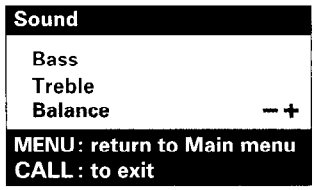
1 Press the **MENU** button to access the **Main menu**.



2 Use the ^ (or v) button to ***highlight*** Sound.

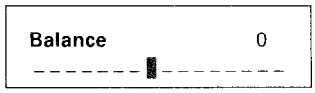
3 Press the + button to ***select*** the **Sound** menu.

Press the ^ (or v) button to ***highlight*** Balance.



4 Press the + button to ***select*** the **Balance** menu.

Use the + (or –) button to ***adjust*** the setting.

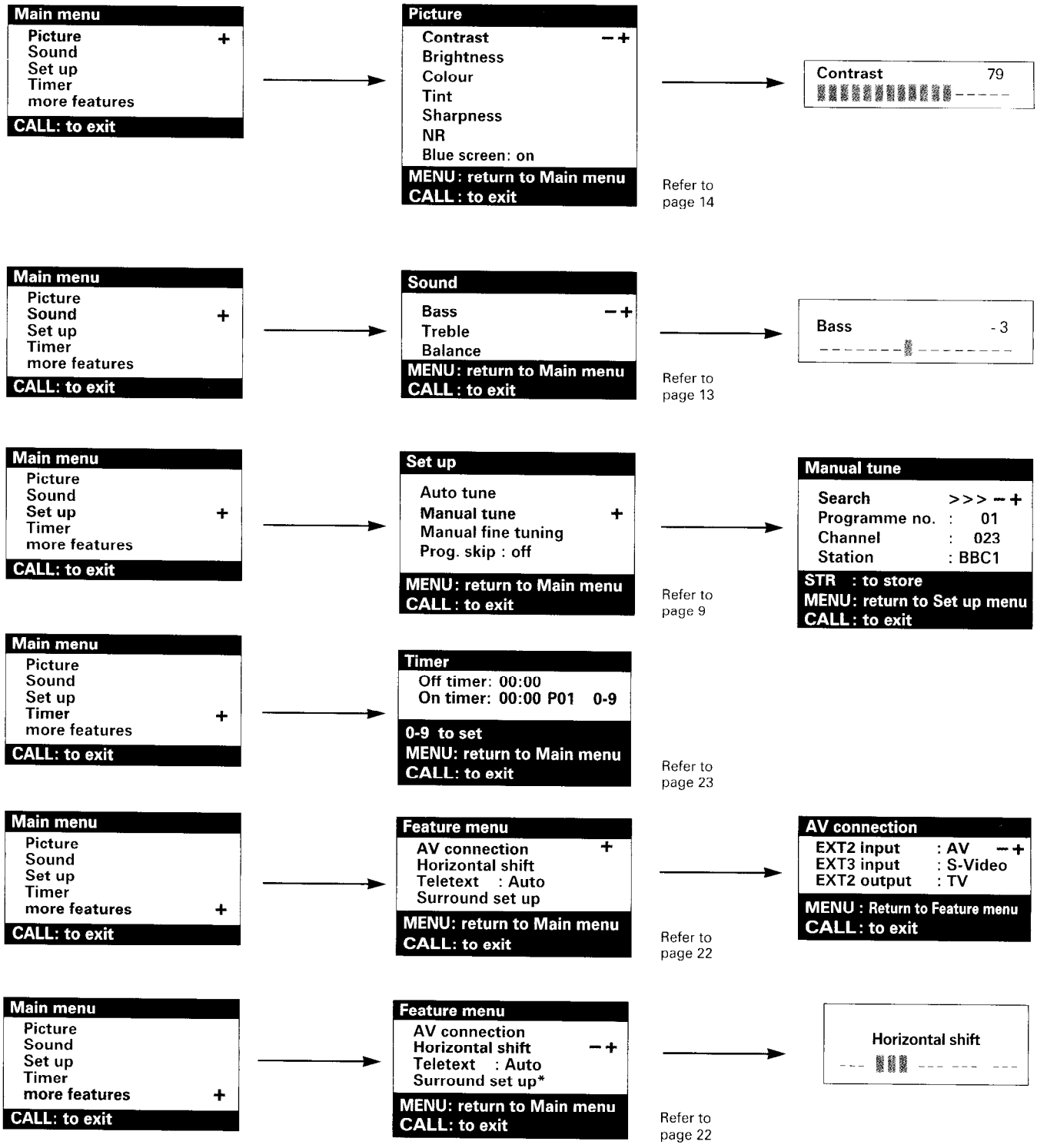


Menu displays

Menu displays will remain on screen for approximately 15 seconds. If a display disappears, simply press the **MENU** button to bring back the Main menu screen display.

To cancel any display press the **CALL** button.

List of menu displays:

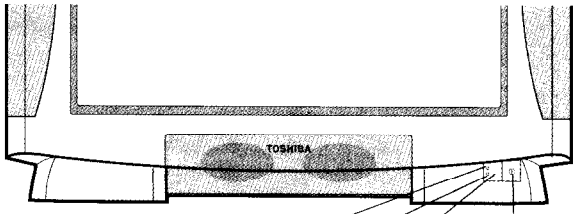


*Only when Dolby is selected (See page 19).

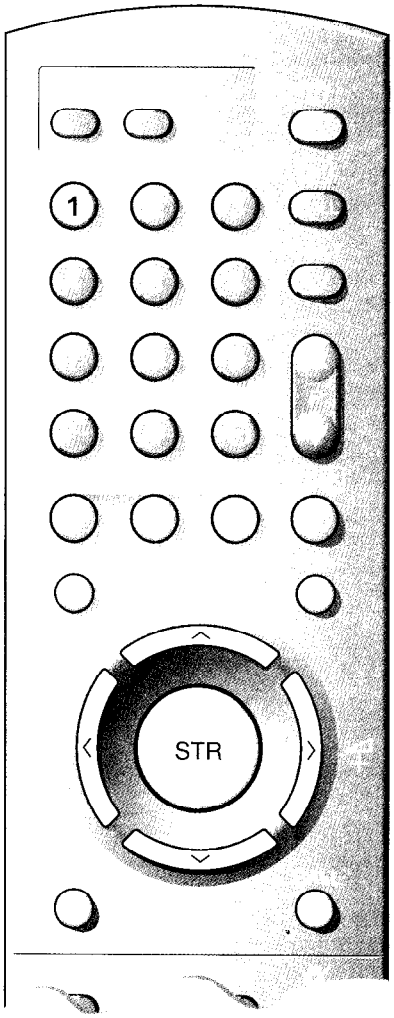
Auto tune

Your new Toshiba television is designed to automatically tune-in and store all available terrestrial transmissions and a position for a satellite receiver. When using 'Auto tune', the TV will search through the entire broadcast band. For example: When a BBC1 signal is found the TV will automatically suggest that it should be stored on programme position 1. Where more than one BBC1 is found, you will be offered the choice of which BBC1 signal you want to put on programme position 1, and so on.

Switching on, Auto tune:



The buttons you will need for each section are highlighted in white (see below).



Menu displays will remain on screen for approximately 15 seconds. If a display disappears simply press the **MENU** button to bring it back.

To cancel any display press the **CALL** button.

Note: *Do not connect SCART leads until the television is fully tuned.* The satellite receiver must be switched on and tuned to Sky News and the video recorder plugged in and set to standby. This will enable your television to identify and allocate the necessary programme positions.

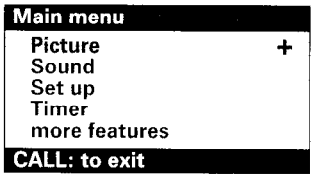
---

1 If the Power-On light is unlit, press the on/off switch on the front of the TV to switch the set into standby mode.

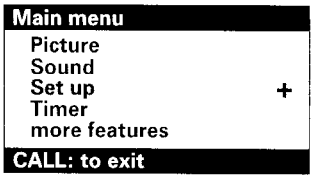
The Power-On red light will glow.

2 Press button 1 on the remote control to turn the TV on.

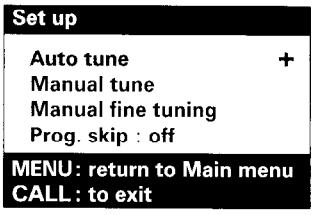
3 Press the **MENU** button to ***select*** the **Main menu**.



4 Press the ⌄ button repeatedly to ***highlight*** Set up.



5 Press the **+** button to ***select*** the **Set up** menu.



Continued on page 8.

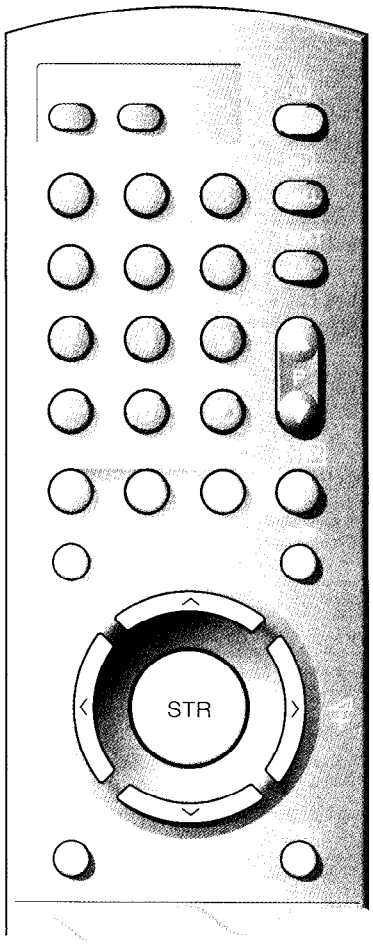
Auto tune (continued)

Auto tune searches and automatically allocates programme positions. To allocate a position for your video recorder use Manual tune see page 10.

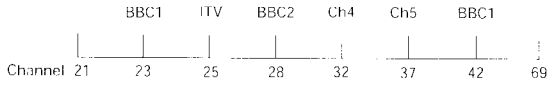
Auto tune:

Menu displays will remain on screen for approximately 15 seconds.

If a display disappears simply press the **MENU** button to bring it back.



PROGRAMME POSITIONS SELECTED DURING AUTO TUNE	
PROG POSITION	**STATION**
1	BBC1
2	BBC2
3	ITV
4	CH4 (Channel 4)
5	CH5 (Channel 5)
6	SAT (Satellite)



Example of television stations transmitting on specific channels.

6 Press the **+** button to ***select*** the **Auto tune** menu.

Press the **STR** button to start the automatic search.

DO NOT PRESS ANY BUTTONS WHILST THE AUTOMATIC SEARCH IS IN PROGRESS. If you make a mistake simply start again from step 3.

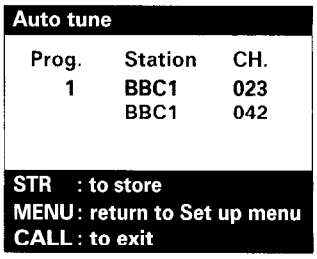
Each station will be displayed along with a station identifier, if available and the channel number.

Allow the television to complete the search.

(This takes approximately 2 minutes.)

When the search is complete, the screen will display a list of all the available BBC1 signals.

7 If more than one station is displayed, press the ∨ (or ∧) button to ***highlight*** and view each signal in turn. Choose the strongest signal (i.e. the best picture and sound). Press the **STR** button to STORE BBC1 to programme position 1. (**STR: to store** will highlight momentarily.) Any unstored BBC1 choices will be displayed later should you wish to store them.



Note: You can only choose one BBC1 station at this stage.

8 Repeat step 7 for all the remaining programme positions you wish to tune including the satellite.

Any remaining stations can be stored in programme positions 7, 8, 9 etc.

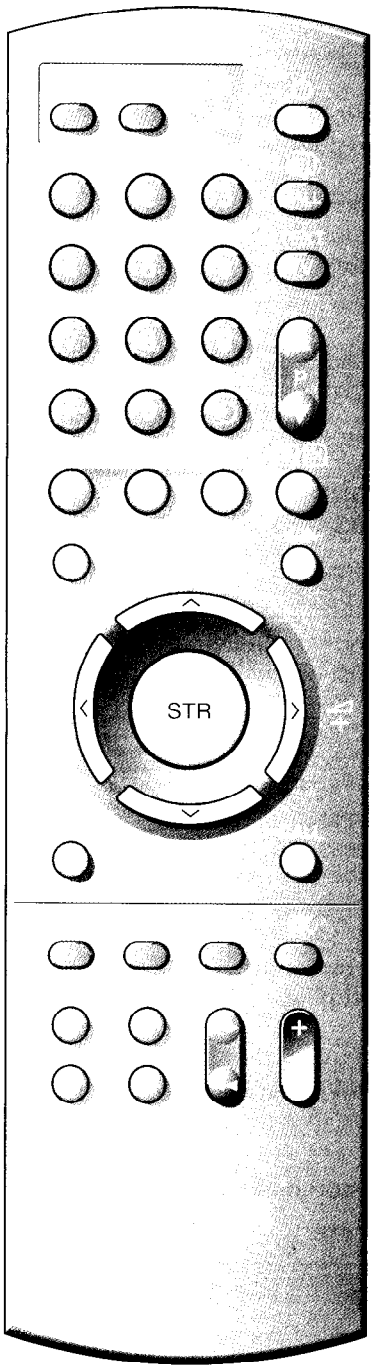
Press the **CALL** button to exit when you have finished.

You may now connect the SCART leads.

Manual tune

Your Toshiba television may be tuned manually as an alternative to Auto tune. See page 10 to allocate a programme position for your video recorder.
Note: *Do not connect SCART leads until the television is fully tuned.* The satellite receiver must be switched on and tuned to Sky News and the video recorder plugged in and set to standby. This will enable your television to identify and allocate the necessary programme positions.

Manual tune:



Note: This TV has direct channel entry if the channel numbers are known.

Select the screen in step 4 on this page, enter the required programme position and then enter the appropriate channel number using the remote control. Then press the **STR** button to memorise.

1 Press the **MENU** button to ***select*** the **Main menu**.

2 Press the ^ (or v) button repeatedly to ***highlight*** Set up.

Press the + button to ***select*** the **Set up** menu.

3 Press the ^ (or v) button to ***highlight*** Manual tune.

Press the + button to ***select*** the **Manual tune** menu.

4 Press the ^ (or v) button to ***highlight*** Search.

Press the + button to search up or the — button to search down the band. The >>> will flash while the TV is searching.

Main menu
Picture
Sound
Set up +
Timer
more features
CALL: to exit

Set up
Auto tune
Manual tune +
Manual fine tuning
Prog. skip : off
MENU: return to Main menu
CALL : to exit

Manual tune
Search >>> — +
Programme no. : 01
Channel : 023
Station : BBC1
STR : to store
MENU: return to Set up menu
CALL : to exit

When a station/satellite is found it will be displayed along with the station identifier (when there is one, i.e. BBC1).

5 If you want to store this station press the ^ (or v) button to ***highlight*** the Programme no.

Press the + (or —) button to ***select*** the programme position number required.

Manual tune
Search
Programme no. : 0 — +
Channel : 023
Station : BBC1
STR : to store
MENU: return to Set up menu
CALL : to exit

6 Press the **STR** button to store the broadcast. (**STR : to store** will highlight momentarily). If you wish to continue searching, repeat from step 4.

The display will stay on screen for approx. 20 seconds. If you do not STORE the programme position it will not be held in memory.

When the TV reaches the top of the band it will automatically start again.

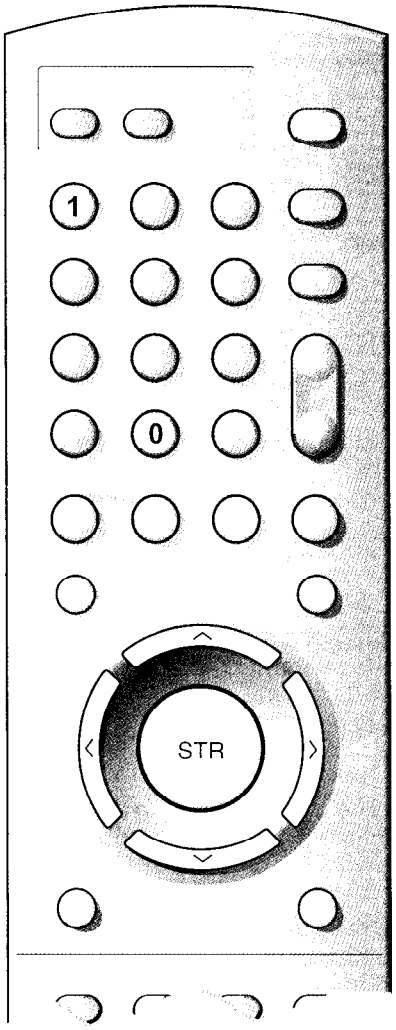
Repeat the procedure for all the remaining channels you wish to store including the satellite.
Press the **CALL** button to exit when you have finished.

You may now connect the SCART leads.

Manual tune (continued)

If you cannot connect the TV to the video recorder using scart connectors you will need to allocate a programme position on the TV for the video recorder.

Tuning to your video recorder (connected via an aerial cable), Manual fine tuning, Programme skip:



Programme skip:
The Programme skip feature enables you to prevent certain programme positions from being viewed.
For example, if you are going out for the evening and you do not wish your children to watch a certain film etc., you can skip the programme position (channel, e.g. BBC1) and take the remote control with you. The TV will function normally, using the controls on the front of the TV but the set will not show the skipped programme position (in our example BBC1).

NOTE: A * will appear beside a skipped programme position when using the numbered buttons on the remote control.

Tuning to your video recorder (connected via an aerial cable)
To tune your television to your video recorder play a pre-recorded tape.

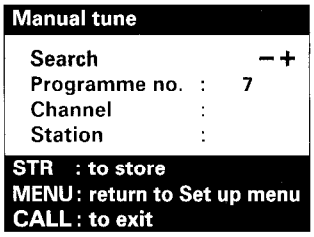
1 Follow steps 1 to 4 (Manual tune) as detailed on page 9.

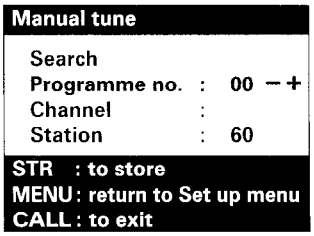
When the signal from your video recorder is found, your pre-recorded tape will be displayed.

It is suggested that it is stored in TV programme position 00.

Don't forget to press **STR**.

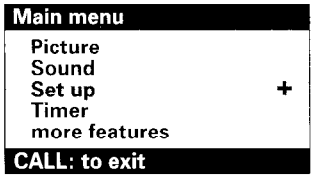
YOU MAY NOW CONNECT YOUR SCART LEADS





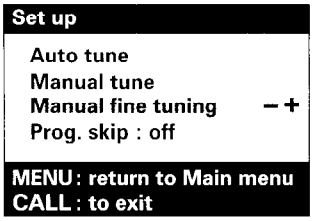
Manual fine tuning (Not normally required)
This will enable you to adjust the tuning manually to optimise the picture.

1 Press the **MENU** button to display the Main menu. Press the ^ (or v) button to ***highlight*** Set up. Press the + button to ***select*** the **Set up** menu.



2 Press the ^ (or v) button to ***select*** **Manual fine tuning**.

Hold down the + button to fine tune up, or the − button to fine tune down.

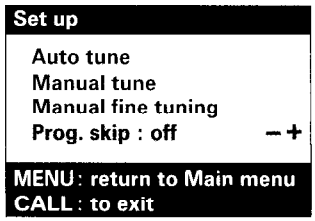


This setting will be stored automatically.

Tuning-in is now complete.

To select Programme skip

1 Select the programme position (i.e. BBC1) to be skipped. With the adjacent menu showing, press the ^ (or v) button to ***select*** **Prog. skip**.

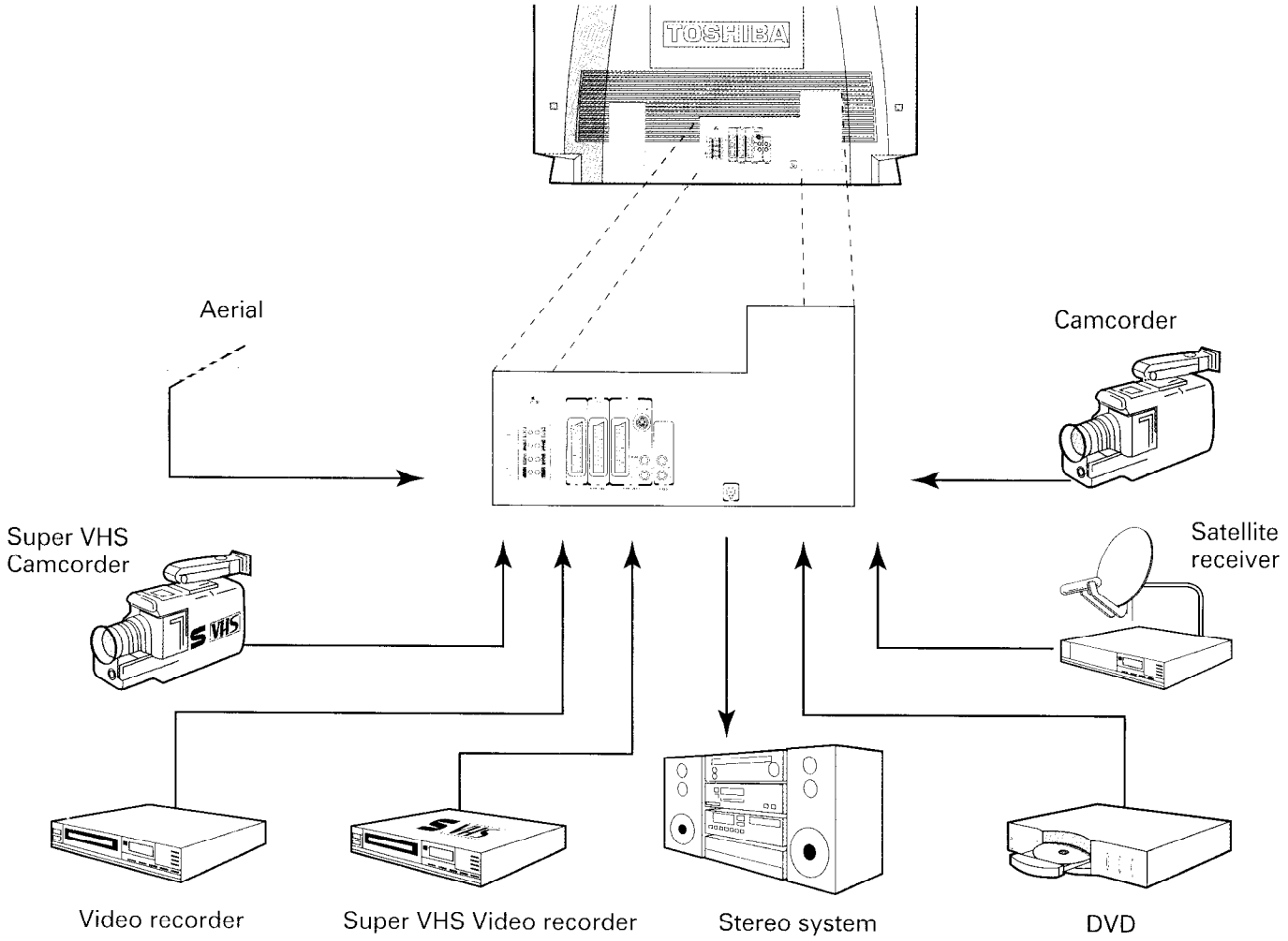


2 To turn the Prog. skip option on or off use the + (or −) button.

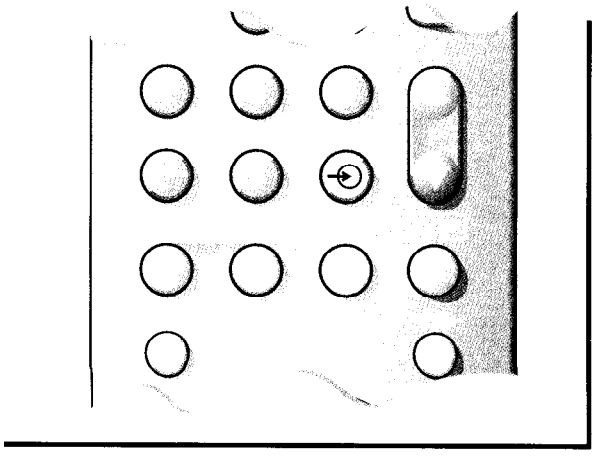
TV Back Connections

You may now connect any auxiliary equipment using SCART leads for optimum performance.
The diagram below illustrates some of the possible connections for auxiliary equipment.

TV Back Connections:



Input Selection: Having connected your video recorder, satellite receiver etc. as shown in the diagram above you may have to use the external source selection button ⊙ to view a video recorder/satellite. If your TV automatically switches over to monitor the auxiliary equipment (see page 12), press one of the numbered buttons on the remote control to return to TV mode.



External speakers: A wider front Stereo effect may be obtained by connecting external front speakers

When connecting external Hi-fi speakers of your choice, they must be 8 ohm, 10W minimum.

Please Note:
1. When connecting external speakers always make sure that the power switch is turned off.
2. Observe the correct polarity and never 'short ' the speaker cables.
3 You must set the switch to EXT.

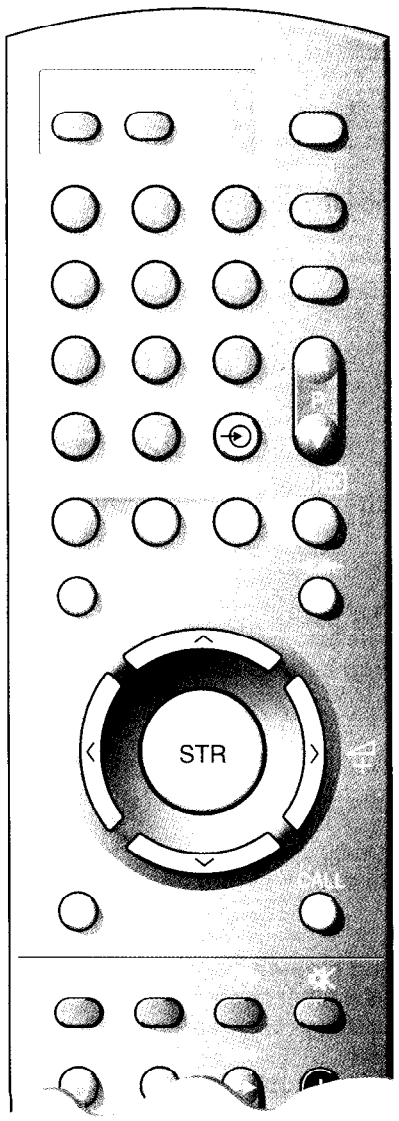
Input selection

Input Selection:

These sets have three 21 pin scart sockets which enable you to connect a wide range of audio and video equipment.

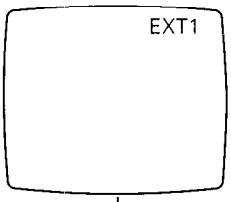
If any auxiliary equipment is connected to this TV via the scart connector, you may discover that the TV automatically switches over to monitor the equipment. This depends upon the type of auxiliary equipment connected.

If your auxiliary equipment does not have a scart socket, connect the video recorder, satellite receiver etc. to the TV via the aerial socket.

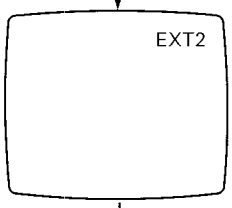


Input Selection

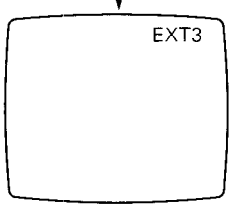
1 If the TV does not switch over automatically, press the ⊕ button to bring up the adjacent display. This will display the signal coming in through Scart 1.



2 Press the ⊕ button again to view a second video recorder, laser disc player, Camcorder, computer/games or satellite receiver through Scart 2.



3 Press the ⊕ button again to view a Camcorder/computer game connected either to the front of the TV, Scart 3 or the S-Video connector at the rear of the TV (input 3).



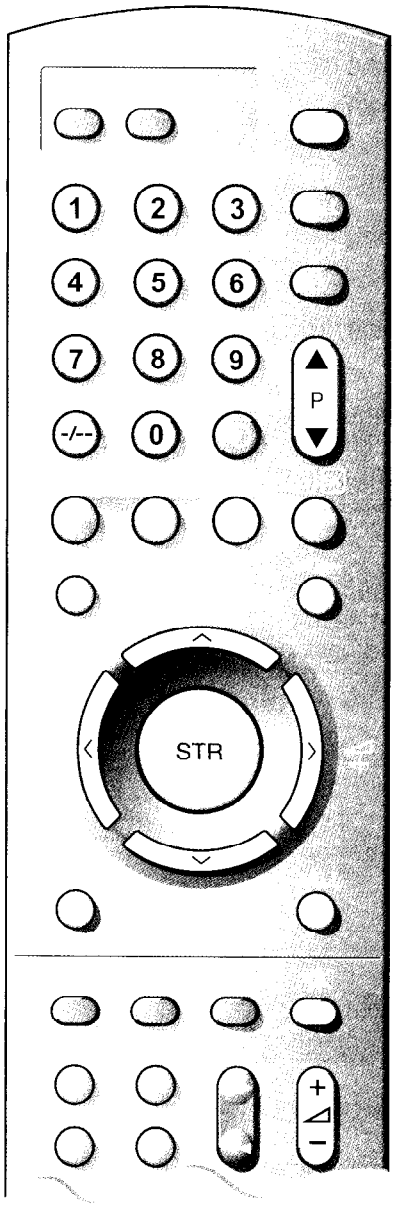
4 Press the ⊕ button again to return to TV mode. Alternatively simply press one of the numbered buttons at any time.

Note: An input selection display of EXT2S or EXT3S means that S-Video input has been selected. (See page 22.)

Watching TV

NOTE: To identify the current programme position press the **CALL** button. Press again to cancel the display.

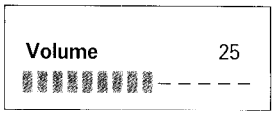
Volume, Changing programme positions, Sound adjustments:



Standby Button ⏻:
This allows you to put the set into standby mode when leaving the TV unattended for short periods of time, or when using the 'ON TIMER' (see page 23). To return to TV mode press the ⏻ button, or any of the numbered buttons on the remote control.

To alter the volume

1 To raise or lower the volume press the + ◿ − buttons, or the ❮ and ❯ buttons. The display will show the changes.

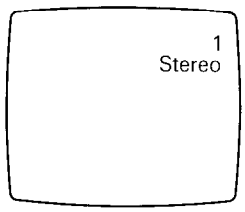


Alternatively:

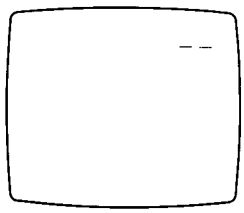
2 The sound can be muted simply by pressing the 🔇 button. Press again to restore the sound, the Sound Mute message will disappear.

To change programme position

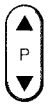
1 To select a programme position press one of the numbered buttons. The programme position will be displayed in the top right corner of the screen for a few seconds.



2 If you have stored more than 10 programme positions, press the -/-- button to select – – to enter 2 figure programme position numbers.



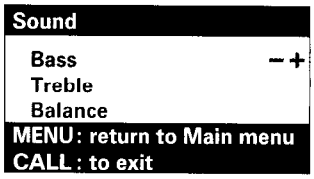
3 Alternatively you can change the programme position by using the adjacent button.



Sound adjustments (Bass, Treble and Left - Right Balance)

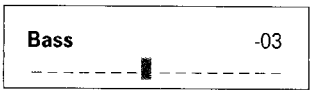
1 With the **Sound** menu showing press the ^ (or ⌄) button repeatedly to ***select*** **Bass**, **Treble** or **Balance**.

For example: Bass.



Press the + (or −) button to ***select*** the **Bass** display.

2 Use the + (or −) button to adjust the settings.



Picture adjustments

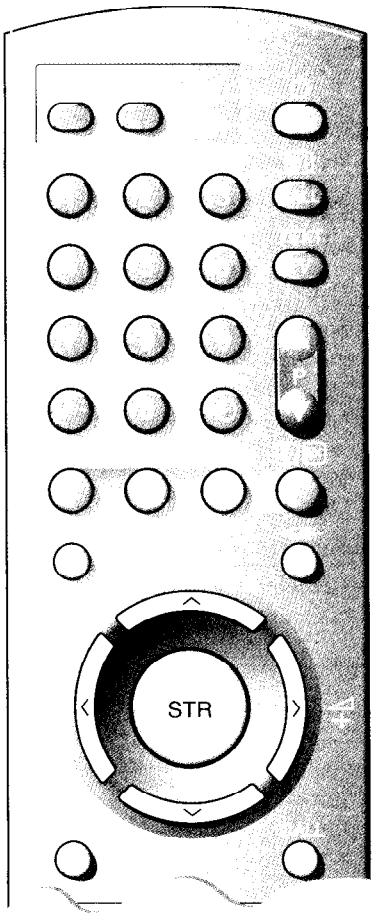
Selectable picture allows you to change the contrast at the touch of a button.

Picture adjustment using the remote control:

There are four picture styles to choose from designed to suit your particular taste.

The digital effect decreases from picture style **Picture-1** down to style **Picture-3**. i.e. should you require high levels of contrast but a low digital effect you can choose picture style **Picture-3** and then increase contrast and brightness.

The memory (**Picture-M**) will contain your own selection of Contrast, Brightness, Colour, Tint and Sharpness.

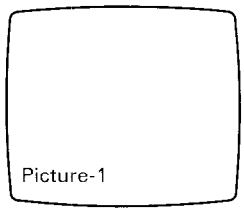


The Noise Reduction (NR) feature can improve the picture quality of a weaker signal.

The Blue screen control instructs the television set to mute the sound and switch the screen to blue when no signal is being received and will switch to standby after approximately 20 minutes.

To select the alternative picture styles

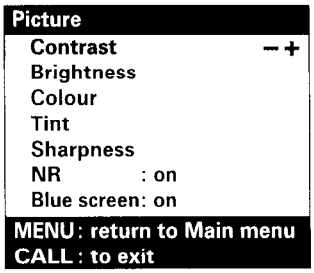
1 Press the →◪← button repeatedly to view the different picture styles available.



Contrast, Brightness, Colour, Tint and Sharpness Adjustment

1 With the **Picture** menu showing press the ∧ (or ∨) button repeatedly to ***select*** between **Contrast**, **Brightness**, **Colour**, **Tint** and **Sharpness**.

Note: The tint adjustment only applies to tapes that have been recorded and played back on an NTSC video recorder.

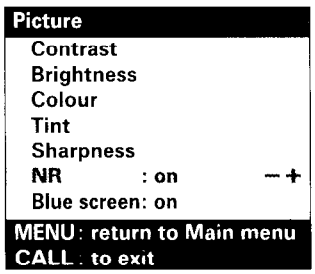


2 Press the + (or −) button to ***adjust*** the settings.

Noise Reduction (NR), Blue screen:

To select (NR) Noise Reduction or Blue screen

1 With the **Picture** menu showing press the ∧ (or ∨) button to ***select*** **NR** or **Blue screen**.



2 To turn on (or off) press the + (or −) button.

Nicam and dual language transmissions

This TV set is designed to receive and automatically detect all Nicam and dual transmissions. The following describes the operation and displays which accompany these broadcasts.

Stereo/bilingual modes:

If stereo or dual broadcasts are transmitted the word Stereo or Dual will appear in the upper right corner of the screen, after a few seconds the display will disappear. The display will reappear each time you change programme positions, provided that the broadcast is in stereo. If the broadcast is not in stereo the word Mono will appear.

Some common problems with stereo reception:

The word Stereo does not appear on screen:

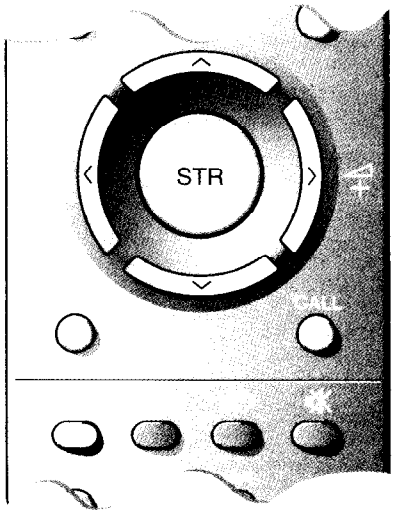
1 It is not a stereo transmission.
2 Your local transmitter has not been upgraded for stereo.

Stereo appears but sound is in Mono:

1 You have selected Mono mode.
2 The original soundtrack of the film etc. was recorded in Mono.
3 The programme is being broadcast with identical sound in left and right channels.

Note: For stereo and dual information refer to a TV programme magazine or the text pages for your area.

If transmission is in Mono the ⌀I/II button has no function.

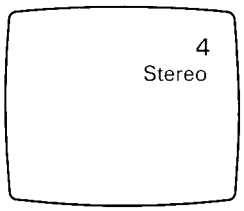


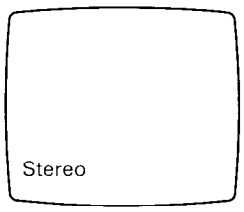
To select stereo/mono mode

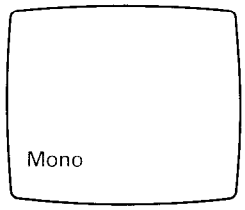
1 Select the required programme position.

Press the ⌀I/II button repeatedly, to select between Stereo and Mono.

(Nicam broadcasts can be in either Stereo or Mono.)



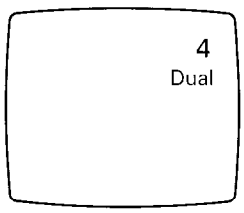


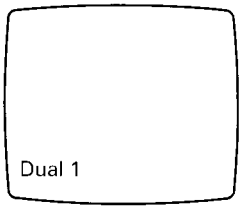


Bilingual transmissions are rare. If bilingual broadcasts are transmitted the word Dual will be displayed.

To select bilingual mode (when transmitted)

1 If the word Dual appears when you select your programme position, press the ⌀I/II button to select between the different options.





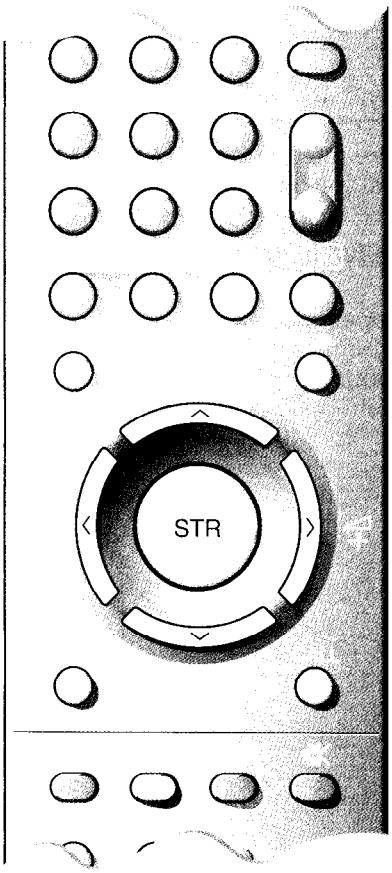
Surround effect selection

With Toshiba's 'Digital Surround processor' and Dolby Pro Logic Surround your television can simulate a wide range of various surroundings: From Dolby Pro Logic Surround and Dolby 3 Stereo to Hall, Theatre, Disco, Stadium and Pseudo surround.

Surround effects selection:

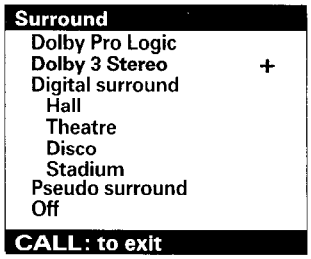
Toshiba's TV's with Dolby Pro Logic Surround use a combination of speakers (front-left, front-right, centre and two rear speakers) to reproduce in the living room the surround effects now available on most videos and an increasing number of TV broadcasts.

With Toshiba's Digital surround processor, various effects are available to simulate a wide range of listening environments using the surround speakers. Whatever you are watching, it's easy to choose the sound mode that will make you feel as if you are right there in the concert hall, movie theatre, disco or stadium and even mono soundtracks can be enhanced when in pseudo mode.

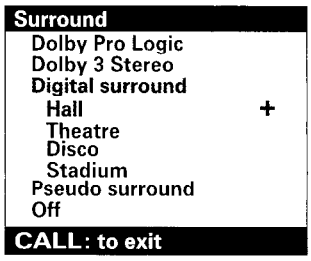


1 Press the ⋈ button to ***select*** the **Surround** menu. Press the ∧ (or ∨) button to ***select*** between the modes available **Dolby Pro Logic** *

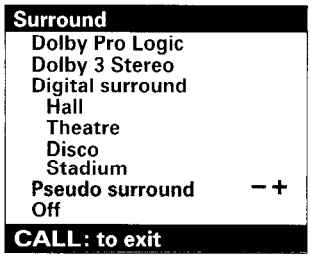
Dolby 3 Stereo



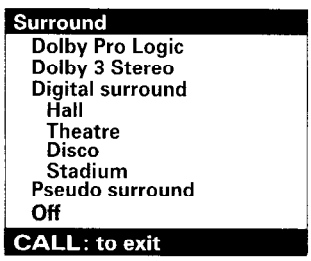
Digital surround
Hall or
Theatre or
Disco or
Stadium



Pseudo surround



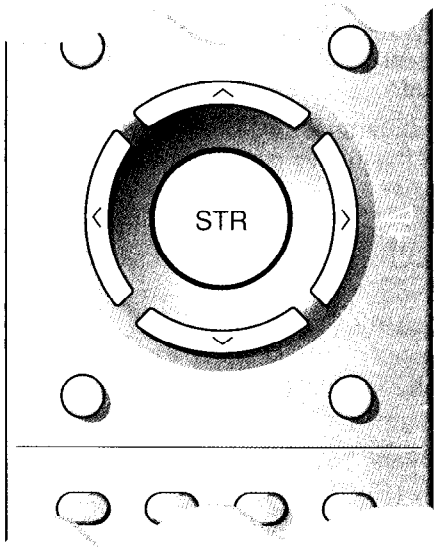
Off (Surround Sound off, normal stereo).



* Only available when **Rear speaker: yes** is selected (see page 17).

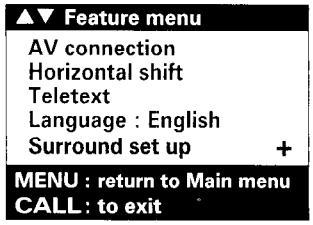
Dolby Pro Logic Surround and Dolby 3 Stereo

Rear Speakers:



1 With the **Feature menu** showing, press the ∧ (or ∨) button to ***highlight*** Surround set up.

Press the **+** button to ***select*** the **Surround set up** menu.

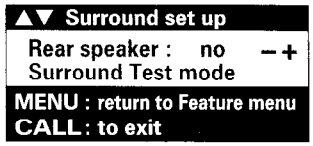


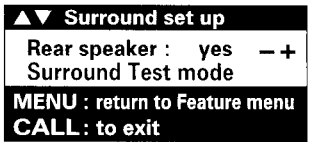
2 Press the ∧ (or ∨) button to ***highlight*** Rear speaker.

Press the **+** (or **−**) button to ***select*** between –

Rear speaker: no and

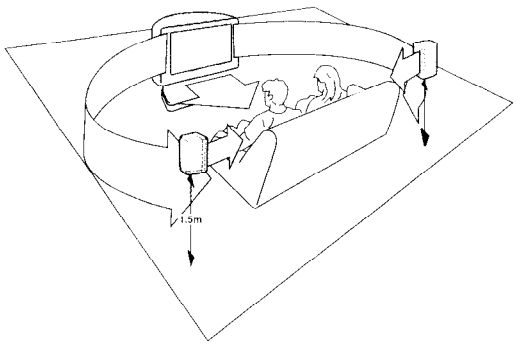
Rear speaker: yes.





SPECIAL SOUND FEATURES

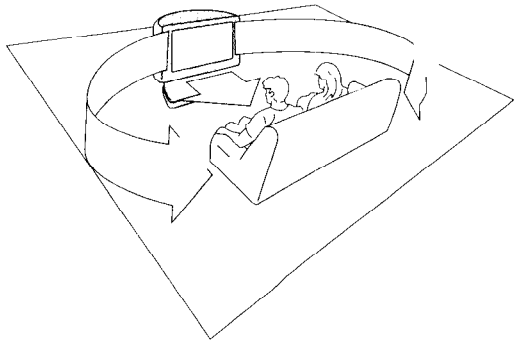
Dolby Pro Logic:



These illustrations show the sound effects available from the two modes and the speakers used.

6 Speakers Driven:
- Front Left,
- Centre,
- Front Right,
- Rear Left
- Rear Right
- Super Woofer.

Dolby 3 Stereo:



4 Speakers Driven:
- Front Left,
- Centre,
- Front Right,
- Super Woofer.

Dolby Pro Logic Surround and Dolby 3 Stereo (continued)

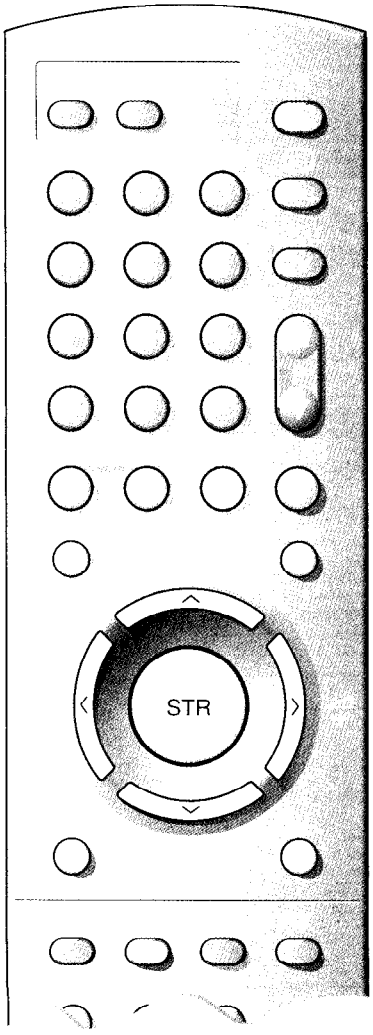
Dolby Pro Logic Surround and Dolby 3 Stereo

The realistic sound of the cinema is now available from your Toshiba television. This amazing 3 dimensional sound effect is available from any video and laser disk recorded in Dolby Surround and from an increasing number of TV broadcasts; **bear in mind that you need a stereo video recorder, connected via the scart lead, to obtain the effect from a video tape which is recorded in Dolby Surround.**

Part of the excitement of a great film in the cinema often comes from the soundtrack. Hearing thunder rumble round the auditorium, or being surrounded by the atmospheric sounds of the jungle can make all the difference to the extent that we are drawn into a film.

These effects are usually created in the cinema by Dolby Stereo, a unique sound recording system which adds depth and sensitivity to a stereo sound track by projecting a surround track behind and around the audience.

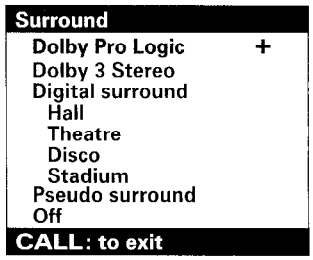
This surround track has now been used on many films, most of which are now available on video. It is also broadcast as part of the signal when TV companies show these feature films in Nicam stereo. But until now, ordinary TV's were unable to 'unlock' this track and play it back around and behind the viewer.



Before you can get the full effects of Dolby Digital, Dolby Pro Logic and Surround effects, you must check that the TV is set up to play sound through the Rear speakers (see page 17).

To select Dolby Pro Logic Surround

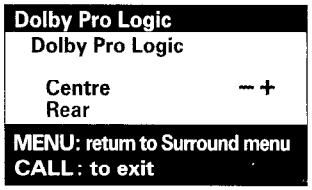
1 Press the ▷◁ button to ***select*** the **Surround** menu. Press the ^ (or ˇ) button to ***select*** Dolby Pro Logic.



2 Press the + button to bring up the levels display.

Press the + (or −) button to adjust the levels.

Alternatively set the levels using the test routine described on page 19.

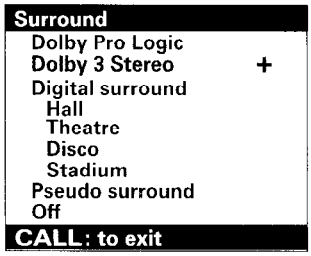


To select Dolby 3 Stereo

1 Press the ▷◁ button to ***select*** the Surround menu. Press the ^ (or ˇ) button to ***select*** Dolby 3 Stereo.

2 Press the + button to view the level set.

To adjust the level use the test routine described on page 19.



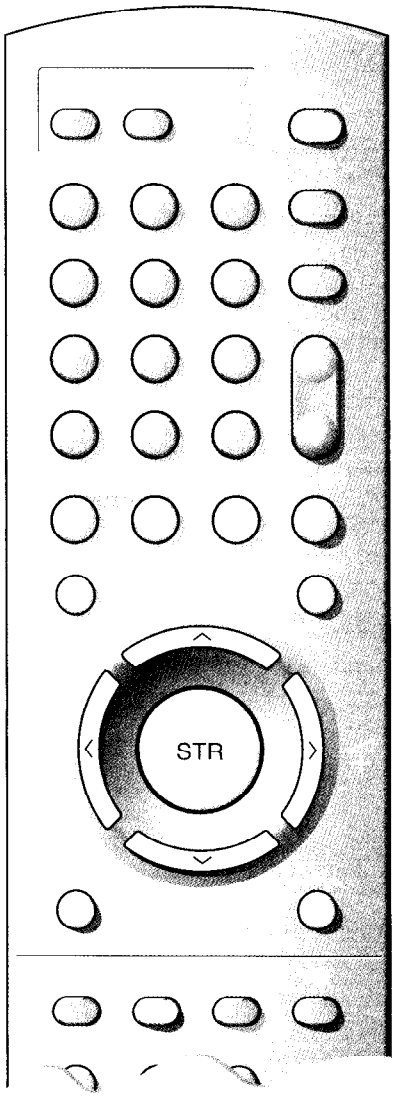
Please note: Inserting the headphone jack will mute the sound from all speakers and deliver a normal stereo left and right signal.

Dolby Surround level settings

When running the following Test sequences ensure that you are seated where you would normally watch the TV. These Test sequences are designed to let you balance all the speakers to the same volume level. The method of adjustment described below is the same for all the Dolby Surround effects (Dolby Pro Logic Surround and Dolby 3 Stereo). The viewing position is important to gain the maximum effect from this TV. **Note:** To adjust the front left and right balance see page 13. Once the levels have been set they will need little or no adjustment.

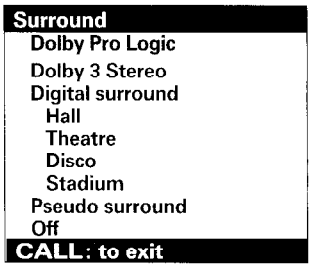
Dolby Pro Logic Test mode:

In order to get the best sound response from your new Toshiba TV we strongly recommend that adjustments should be made only whilst running the Test menu (all the speaker levels are fully adjustable). The Test will play a 'white noise' through each of the speakers in turn. The display will show you which speaker is in play, adjustment to the speaker levels may be made whilst it is highlighted on the screen.



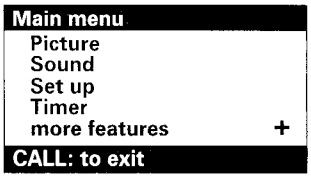
To select Dolby Pro Logic Test mode: Pro Logic and Dolby 3 Stereo

1 Press the ▷◁ button to bring up the **Surround** menu. Press the ∧ (or ∨) button to ***select*** the mode required.



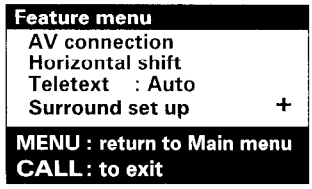
2 Press the **MENU** button to ***select*** the **Main menu**. Using the ∧ (or ∨) button, ***highlight*** more features.

Press the **+** button to ***select*** the **Feature menu.**

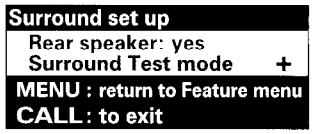


3 Press the ∧ (or ∨) button to ***highlight*** Surround set up.

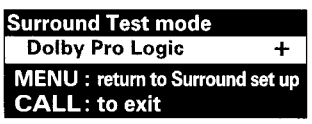
Press the **+** button to ***select*** **Surround set up.**



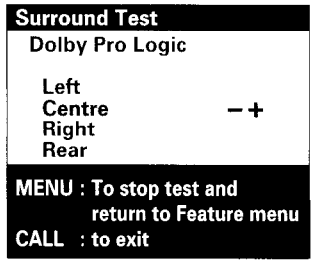
4 Press the ∧ (or ∨) button to ***highlight*** Surround Test mode.



Press the **+** button to ***select*** the **Surround Test** option.



Adjust the Centre and Rear levels to match the Front Left and Right by pressing the **+** (or **−**) button whilst the relevant display is highlighted.



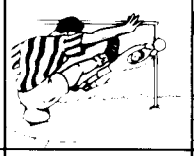
5 To end the Test press the **CALL** button.

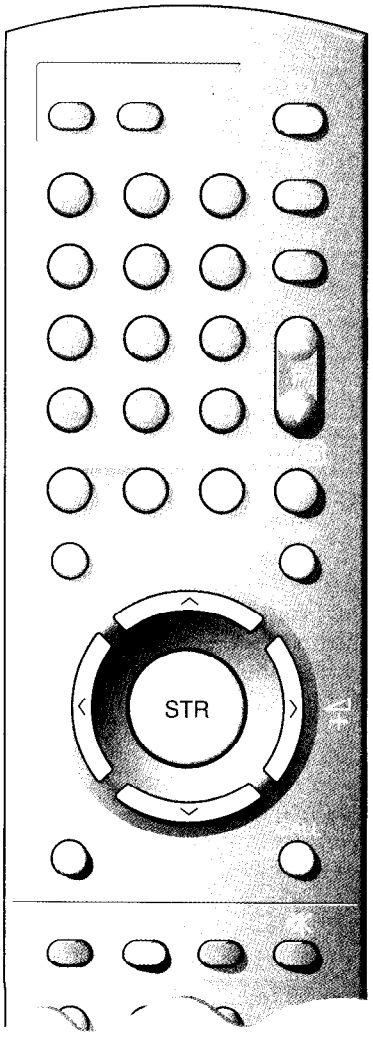
Note: This procedure can be repeated for both the Dolby Pro Logic and Dolby 3 Stereo modes.

Digital surround processor

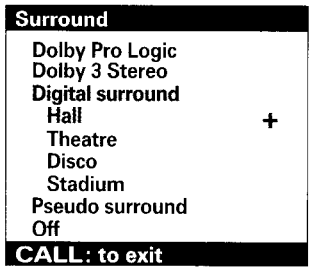
Note: Hall, Theatre, Disco, and Stadium effects are only available on a stereo signal. Pseudo surround works on both mono and stereo signals. All of the Digital surround modes are adjustable, the method of adjustment described below is the same for all the Digital Surround effects.

Digital surround processor:

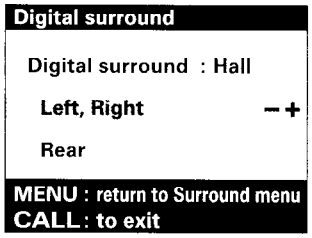
	HALL	THEATRE	DISCO	STADIUM	PSEUDO
SETTING					
EFFECT	A concert hall with a seating capacity of about 1500.	A movie theatre filled with a rich, warm sound.	A room so full of music that it seems to engulf the listener.	A large football or baseball stadium packed for a live game.	A synthetic surround effect for movies and TV programmes.
APPROPRIATE SOURCES	Classical, rock, pop or folk music. Ideal for TV programmes or music video tapes.	TV programmes or movies with stereo sound.	Disco, dance or jazz music.	Any live sports occasion.	Movies and TV programmes in mono.



1 Press the button to bring up the Surround menu. Press the ∧ (or ∨) button repeatedly to ***select*** the **Digital surround** mode which best suits the type of broadcast.



2 Press the + button to bring up the adjacent menu. Press the ∧ (or ∨) button to ***select*** between the front and rear speakers.



3 Adjust the Left, Right and Rear by pressing the + (or –) button whilst the relevant display is highlighted.

Note: For Pseudo surround there is a level adjustment only.

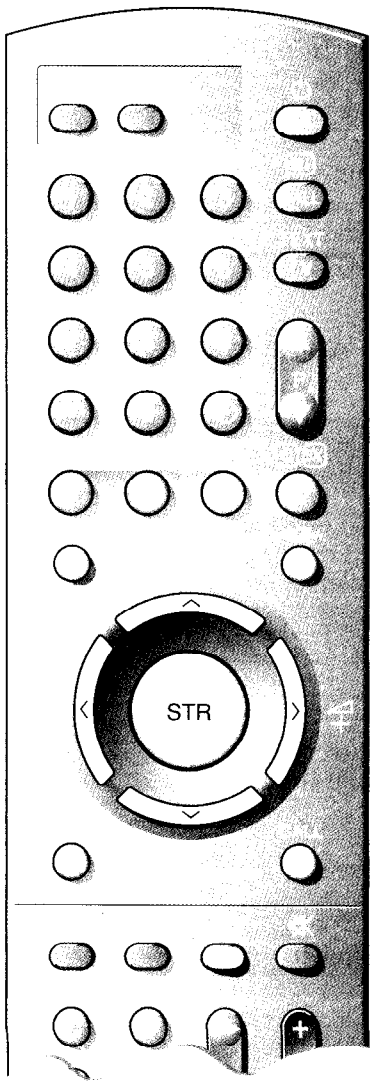
16:9, Super Woofer

16:9:

Most feature films are shot in wide screen (16:9) format, which is then compressed at the studio. With the growth of digital broadcasts, more and more films will be broadcast in Wide Screen format.

If you view a Wide Screen broadcast in Normal (4:3) mode the aspect ratio (height compared to width) will be incorrect.

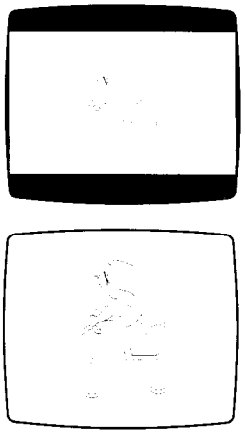
The aspect ratio of the transmission can be corrected by a feature known as picture compression. When viewing a transmission in this mode the images on the screen are restored to their normal proportions. Black bars will appear at the top and bottom of the screen.



This feature has been included for programmes which are transmitted in the wide screen format.

To alter aspect ratio

1 Press the **SIZE** button to view wide format broadcasts.



By pressing the **SIZE** button the aspect ratio is altered and the images are restored to their normal proportions.

To revert to normal 4:3 format, simply press the **SIZE** button again.

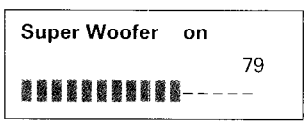
NOTE: There could be interference lines outside the viewing area, this is normal.

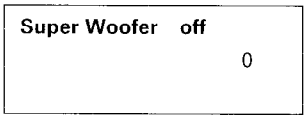
Super Woofer:

A Super Woofer system has been built into your new Toshiba television which adds a greater depth to the sound.

To select Super Woofer

1 Press the 🔊 button to ***select*** **Super Woofer 'on'**. Press again to turn it 'off'.



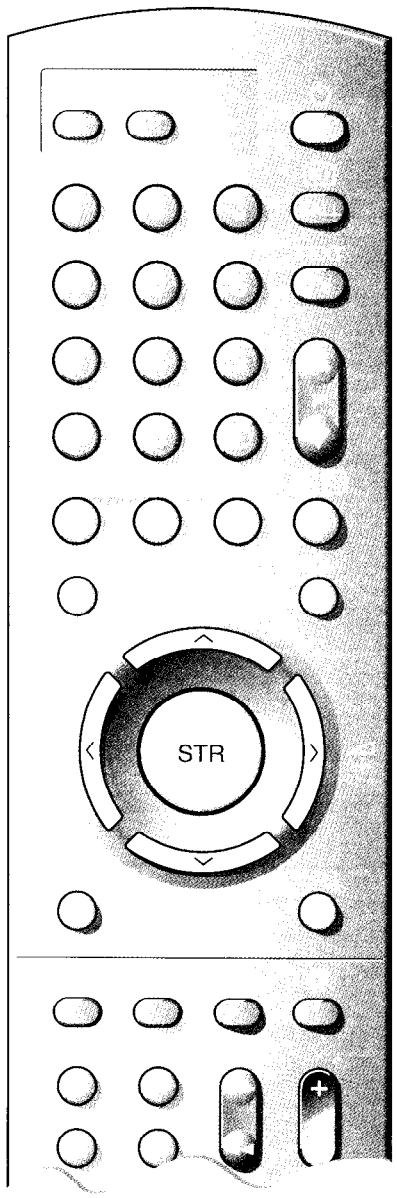


2 Press the **+** (or **−**) button to ***adjust*** the 'volume' level.

AV connections, Horizontal shift

AV connections:

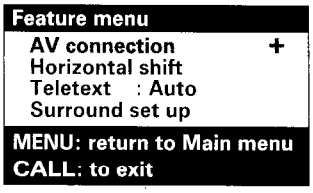
This feature allows you to select the type of equipment to be connected to Scart 2 or 3. AV enables the television to receive signals in standard format, S-Video is for Separated Video signals.

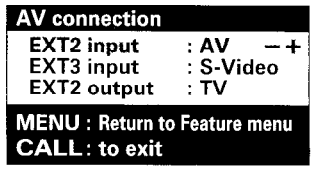


To select input signal for Scart 2 and Scart 3

1 With the adjacent menu showing. Press the ∧ (or ∨) button to ***highlight*** AV connection, press the + (or −) button to ***select*** the AV **connection menu**.

Press the ∧ (or ∨) button to ***highlight*** the required external input, press the + (or −) button to ***select*** the required input (**AV** or **S-Video**).



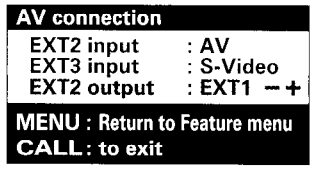


To select output signal for Scart 2

This feature enables you to select the source to output from Scart 2. e.g. If you connect a stereo satellite receiver to Scart 1 and a stereo video recorder to Scart 2, and select EXT1 as the EXT2 output, you will be able to record the stereo satellite transmission in stereo.

1 Press the ∧ (or ∨) button to ***select*** EXT2 output, then press the + (or −) button to ***select*** between **TV**, **EXT1**, **EXT2**, **EXT3** or **Monitor**.

(Monitor = Picture on screen)
(TV = TV tuner)



Horizontal shift:

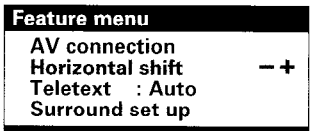
This is factory set and should need little or no adjustment, however, if when viewing text or using a computer the display is to one side, adjustment to a central position can be made.

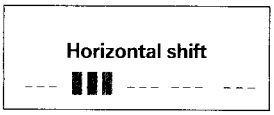
Horizontal shift

1 With the adjacent menu showing, press the ∧ (or ∨) button to ***highlight*** Horizontal shift.

Press the + button to ***select*** **Horizontal shift.**

Press the + (or −) button to ***adjust***.

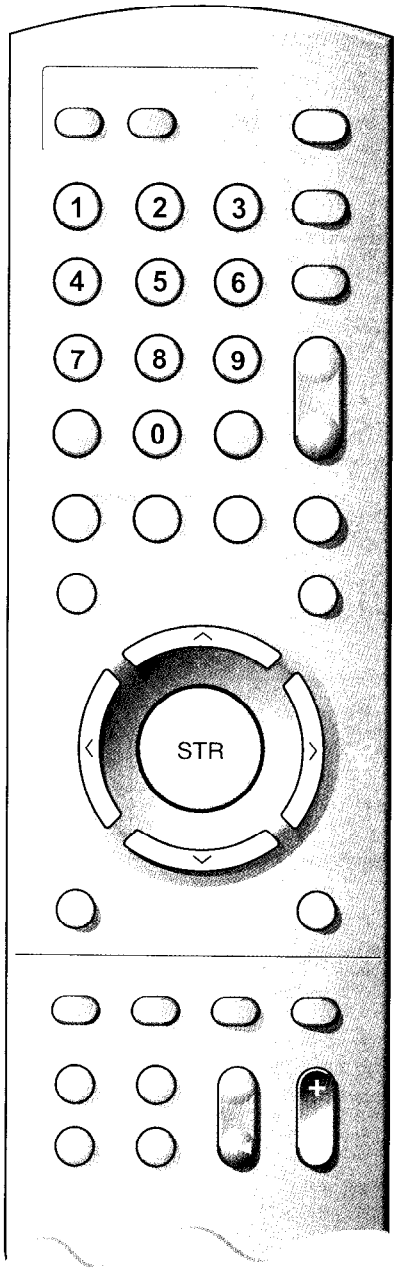




Timer, Time Display, Teletext mode

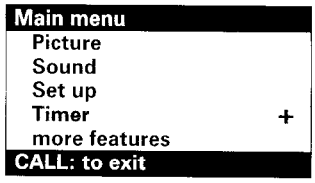
Timer:

The Timer is useful if you want the television to turn itself on or off after a selected period of time. For example: If you want the set to turn itself on in 30 minutes time and watch programme 3 simply follow the procedure in steps 1 and 2. Activation of the Timer is indicated by a green warning light on the front of the TV (see page 7).



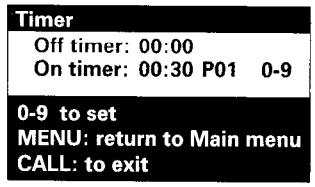
To select the Timer Menu

1 With the adjacent menu showing press the ^ (or v) button to highlight Timer. Press the + button to select the Timer menu.



2 To ***select*** between 'On' or 'Off' press the ^ (or v) button.

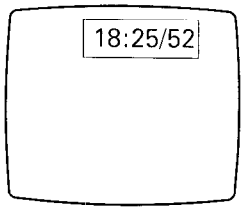
Use the numbered buttons to set the On or Off delay time, e.g. On in 30 minutes.



Note: When setting the On time you will be required to enter the selected programme position. The set must then be put into standby mode (see page 13).**The maximum time delay is 12 hrs 59 mins.**

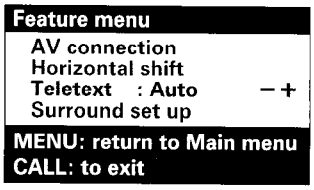
Time Display:

1 If you press the button whilst watching a normal TV broadcast, you will see a very accurate time display appear in the top right corner of the screen.
i.e. 6.25 and 52 seconds p.m.



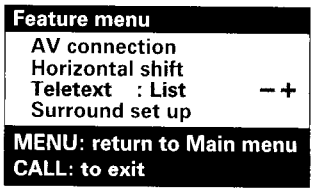
Teletext mode:

1 With the adjacent menu showing, press the ^ (or v) button to ***highlight*** Teletext.



2 To change between Auto and List use the + (or −) button.

The use of these features is described on pages 24 & 25.



Teletext

This set has an 8 page teletext memory, which takes a few moments to load. The Teletext System on this television offers two different ways of viewing text. The systems available will depend on which system(s) are broadcast by your television broadcast station. Your Toshiba dealer will be able to advise you.

Using Teletext:

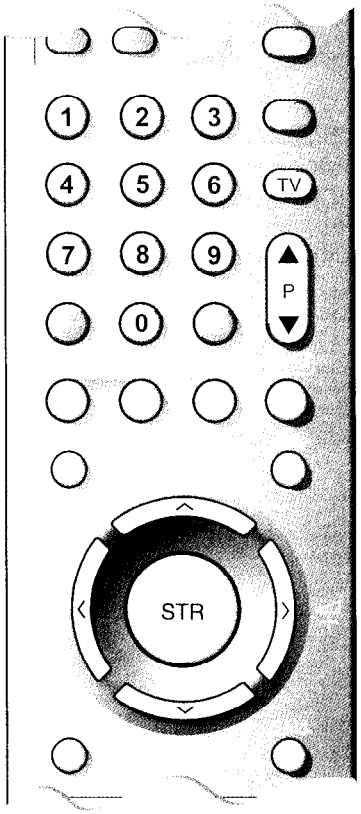
When you first select teletext you will see an initial page which briefly outlines the main subject areas and their relevant page numbers. You can access any teletext page by entering a 3 digit page number using the numbered buttons on the remote control.

To advance to the next page of teletext, press the **P ▲** button, to go back to the previous page press the **P ▼** button.

FASTEXT is a method of viewing teletext pages by related subjects. These subject areas are grouped by the broadcast studio and are selected by pressing one of the associated coloured prompt buttons on the remote control. It may take some time to change pages.

LIST mode enables you to select an INITIAL page and four user selected teletext pages on any programme position 0-9.

To change between Auto and List see page 23.



Note: Cancel Teletext before changing channels whilst using a satellite receiver.

Using AUTO

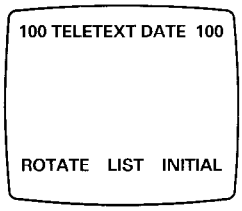
Press the **TEXT TV** button to ***select*** teletext.

If **FASTEXT** is available, you will see 4 coloured titles at the base of the TV screen. To access any given subject simply press the relevant coloured button on the remote control.
If **FASTEXT** is not available, you can access any page simply by entering a 3 digit page number. For further information on your particular text system(s) see the broadcast teletext index page or consult your local Toshiba dealer.

Using LIST Mode

1 Press the **TEXT TV** button to ***select*** teletext.

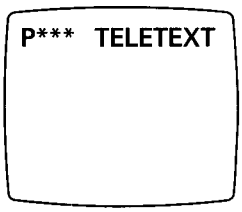
2 To programme the set to hold your 4 favourite pages in memory. Select the LIST function by pressing the GREEN button.

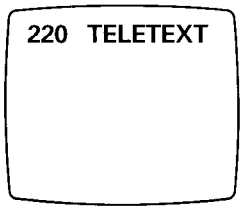


3 Enter the first page number then press the GREEN button. The page number in the lower right corner of the screen will appear in purple. (If the number reverts to white simply press the GREEN button again.) Repeat step 3 for each of the desired 4 pages.

4 To view the selected pages press the RED button for ROTATE.

5 On programme position 0-9 you can pre-programme an INITIAL page. Select the INITIAL function by pressing the YELLOW button. P*** will appear in the top left corner of the screen. Enter the required 3 digit page number. As you key in the desired INITIAL page, for example page 220, the numbers will replace the ***.





Whenever text is first selected on this programme position this INITIAL page will be displayed.

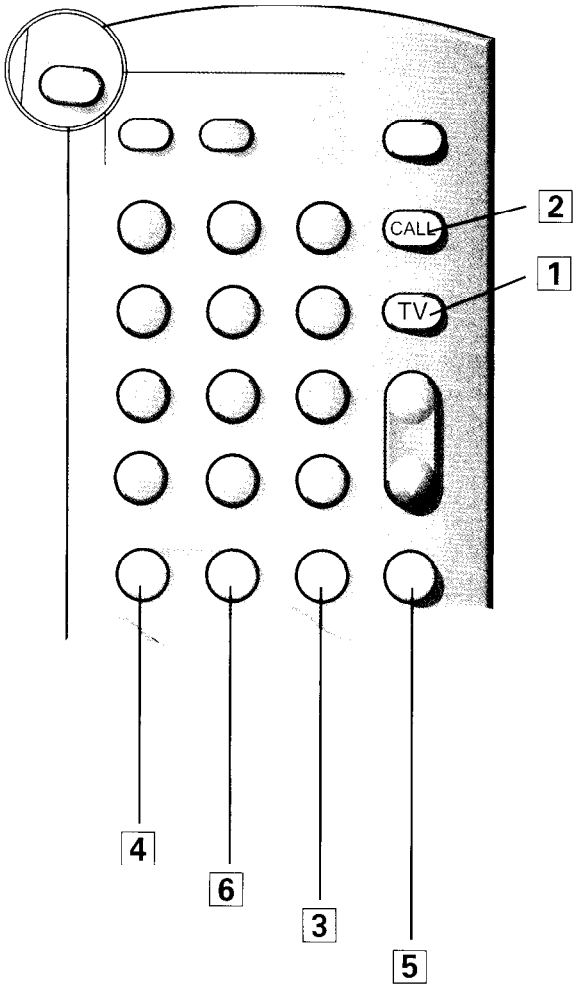
Note: It will not be possible to change programme position in Teletext mode, you will have to cancel the teletext first by pressing the **TEXT TV** button twice.

Teletext buttons on the remote control

Below is an introduction to the teletext buttons on your remote control and their functions.

Teletext buttons on the remote control:

Note: It will not be possible to change programme position in Teletext mode, you will have to cancel the teletext first by pressing the **TEXT TV** button twice.



To use the teletext buttons for these four functions, you must press the F button at the same time.

1 TEXT TV To display a page of teletext:

Press the **TEXT TV** button to display the initial page. Press again to superimpose the text over a normal broadcast picture. Press again to return to normal TV mode.

2 To display an index/initial page:

In Fastext mode
Press the button to call up the index page for the subject area you are viewing. If you are viewing a section index, by pressing the button again you will see the general index.

In LIST mode
Press the button to return to your chosen initial page.

3 F *and* To enlarge the text display size:

Press the **F** + button once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to the normal size.

4 F *and* To hold a wanted page:

At times it is convenient to hold a page of text. Press the **F** + button and the word HOLD will appear in the top left of the screen. Press again to release.

5 F *and* To select a page whilst viewing a normal picture:

If, whilst in teletext mode, the **F** + button is pressed, a normal picture will be displayed. A page selection can be entered and the TV will indicate its presence by displaying a box with the selected page number. Press the **TEXT TV** button to view the page.

To display news flashes:
To view news flashes as they are broadcast, select the news flash page for the particular teletext service (see the index page of Teletext service). Press the **F** + button. The news flashes will be displayed as and when they are broadcast. Press the **F** + button to cancel the display. Note: It will not be possible to change programme position whilst in this mode, you will have to press the **TEXT TV** button to cancel the teletext first.

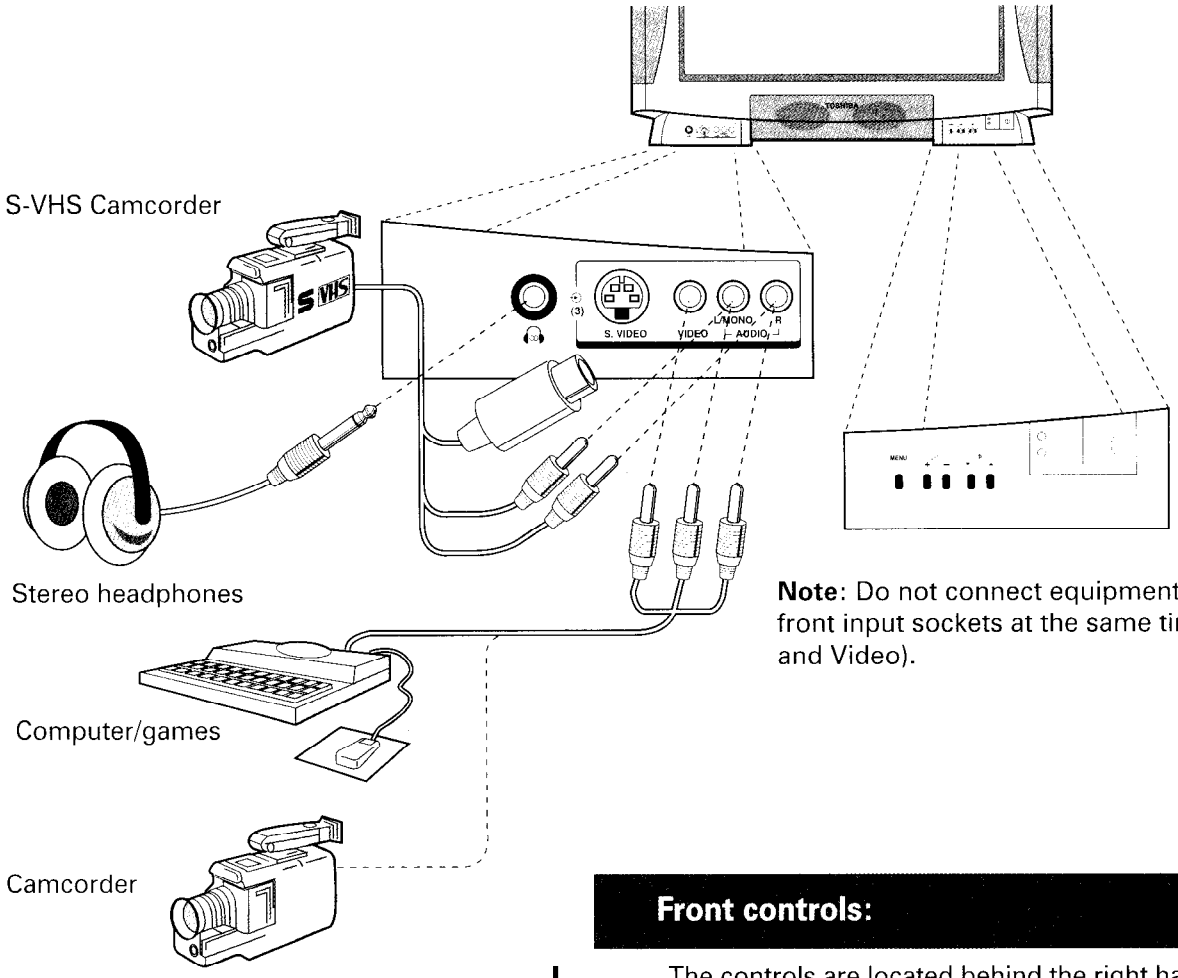
6 F *and* To reveal concealed text:

Some pages cover topics such as quizzes and jokes. To discover the solutions press the **F** + button.

TV front connections

For your convenience you can make connection of camcorders, computer games etc. much more easily. These are accessible through the sockets located behind the left hand flap on the front of the TV set. To open, simply press the top right of the panel. Do not connect equipment to both the front and rear AV ⇥3 input terminals at the same time.

TV front connections:



Note: Do not connect equipment to both the front input sockets at the same time (S-Video and Video).

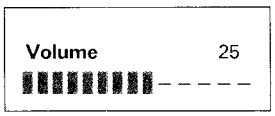
If headphones are used turn surround sound off (See page 16).

Whilst all the necessary adjustments and controls for your new TV are made using the remote control, the buttons on the front of the TV may be used.

Front controls:

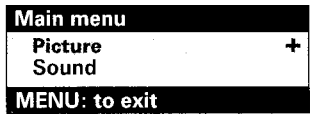
The controls are located behind the right hand flap on the front of the TV set. To open press the top left of the panel.

1 To alter the volume press the ◿ – (or +) button.



2 To alter the programme position press the Ⓟ ▲ (or ▼) button.

1 Pressing the MENU button repeatedly, will enable you to ***select*** between the **Picture menu** and the **Sound menu**.



2 Press the Ⓟ ▲ (or ▼) button to ***select*** the required item and press the ◿ – (or +) button to adjust.

Allow display to disappear or press the **MENU** button on the front of the TV.

For your guidance

If your TV fails to operate correctly, we recommend that the following simple checks are carried out before contacting your local Toshiba dealer.

Simple problem solving:

No Picture or Sound.
Check mains switches are on, press ⏻. Plug into a known working mains socket.
'Timer off' facility has operated.

Poor or no Picture.
Try a different TV station, check your aerial and connections. Adjust fine tuning.

Good picture but no sound.
Press ◿+ or 🔇.
Check that the External Main speaker switch is in the INT position.

Blue Screen.
The set senses a 'no signal' condition, check the aerial connection, switch to a different programme position or confirm that there is no transmitted signal using another TV or check with a neighbour.

Remote Control does not work.
Check the batteries.

If you have problems with text.
Go to the main index page of the text service and look for the User Guide. This will explain the basic operation of text in some detail.

No Dolby Surround.
If you are unable to obtain surround sound effects from the rear speakers whilst playing a Dolby Surround video tape, check that the video recorder is a stereo unit and that the direct left and right audio signals are input to the TV by means of one of the
21-pin sockets or the phono "Video 3" sockets.

Coloured patches on screen.
Caused by magnetic field interference, turn off TV for 10 minutes, turn on again, fault of temporary nature.

VTR or Satellite picture in Black and White.
Ensure the correct scart socket is being used and that the scart is not set to S-Video.

Safety advice:

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT. PLEASE READ THE FOLLOWING POINTS CAREFULLY. THEY ARE OF A GENERAL NATURE, INTENDED TO HELP YOU WITH ALL YOUR ELECTRONIC CONSUMER PRODUCTS. SOME ITEMS MAY NOT APPLY TO THE GOODS YOU HAVE JUST PURCHASED.
This equipment has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.
DO ensure that all electrical connections, including the mains plug, extension leads and inter connections, between pieces of equipment, are properly made and in accordance with the manufacturers instructions. Switch off and withdraw the mains plug when making or changing connections.
DO leave at least 10 cm clearance around the top, sides and back of the TV to allow adequate ventilation and sound response.
DO be careful with glass panels or doors on equipment.
DON'T continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.
DON'T leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.
DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.
DON'T listen to headphones at high volume, as such use can permanently damage your hearing.
DON'T obstruct the ventilation of the equipment for example, with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.
DON'T use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided, according to the instructions.
DON'T allow electrical equipment to be exposed to rain or moisture.
ABOVE ALL - NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case - this could result in a fatal electric shock - NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry.

Cleaning the screen and cabinet. After turning off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

When the set reaches the end of its useful life please dispose of it in accordance with Local Government Regulations or at a recycling centre.

Specifications & Accessories

Specifications:

Receiving system	CCIR (PAL – I) TV Broadcast standard
Receiving channels	UHF: Channels 21-69
Mains Plug 'Fitted' fuse	5 amp
Power consumption	2987DB 120W 3387DB 145W
Programme Positions	100
Stereo	Nicam - I and Dolby Pro Logic surround sound
Video Input	PAL, PAL 50Hz./60Hz. (Video disk playback) NTSC 3.58/4.43 MHz./50Hz. NTSC (VTR playback)
Input/Output	Scart-1 (Full -21 pin) RGB, AV
Input/Output	Scart-2 (21 pin) S-video, AV (Selectable output)
Input/Output	Scart-3 (21 pin) S-video, AV, Normal/S-video, Audio
Fixed output	L-R audio (Note: Front and Rear Input 3 are common)
Front input	Input 3 (4 pin S-video, AV and L+R Audio RCA jacks)
Visible Screen Size	2987DB 68cm 3387DB 80cm
Sound output (at 10% distortion)	Main: 10 + 10W. rms Super Woofer: 13W. rms Centre Speakers: 10W. rms Surround: 5 + 5W. rms
External speaker Terminals	Main x 2 Surround x 2 (for rear speakers)
Dimensions	2987DB: 798 mm (W), 597.5 mm (H), 561 mm (D) 3387DB: 900 mm (W), 689 mm (H), 560 mm (D)
Weight (approx.)	42Kg 53Kg
Headphone Socket	3.5 mm Stereo

Accessories:

1 Remote control
2 (R03, AAA) batteries
2 Surround speakers

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Specification is subject to change without notice.

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